ASSEMBLY INSTRUCTIONS GM 80-90 AND GD 90C MOTOR HEAD

121250xx. **Replacement of the motor/fan unit (12)** **B-1.3.5**
22130500. **Wire kit to replace thermo switch (11)** **1**
22130501. **Thermo switch kit only for UL-approved motor heads (11)**
22231100. **Replacement of the motor grommets (10) and frame (9)**
22231200/01. **Replacement of the bottom housing (14)**
22232300. **Replacement of the top housing (15)**
22232500. **Replacement of the support ring (16)**
22365300. **Replacement of the sound absorber (6)**
22399800. **Replacement of the inlet gasket (13)**

To be performed by a skilled or instructed person only !

Disconnect the vacuum cleaner from the power supply before starting the work!

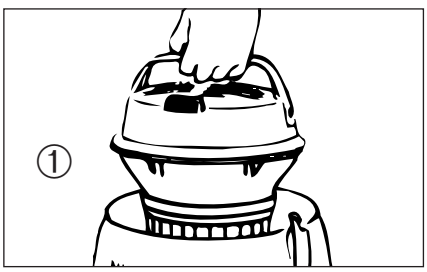
Removal and refitting of the motor head

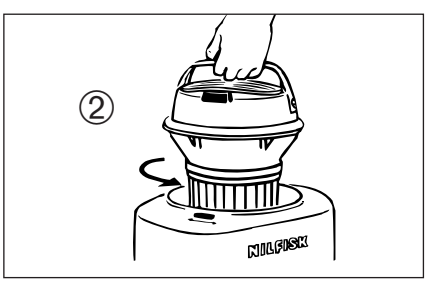
① Model 80: Open the two top catches on the container and lift away the motor head. When replacing the motor head, position the on/off switch over the suction inlet before locking the catches.

② Model 90: Remove the motor head by turning its handle counter-clockwise. Lift out the motor. Refit by placing the motor in the container with the on/off switch in line with the printed on/off symbol on the container. Turn the motor head clock-wise until a distinct click is heard. If the motor head will not lock into position by turning, press the red locking lever inside the container in the direction of the arrow. Then mount as described.

Removal and refitting of the handle with grill, diffuser and sound-suppressor

③ Detach the handle by turning the slot of the two screws to vertical position.





④ Release the handle by a gentle downward pressure at its centre. Press and release the handle from the recess.

⑤ Lift off the grill, diffuser with sound-suppressor. When replaced, mount the sound-suppresor on top of the motor head with diffuser and grill. Replace the handle and lock the two screws by turning their slot to horizontal position.

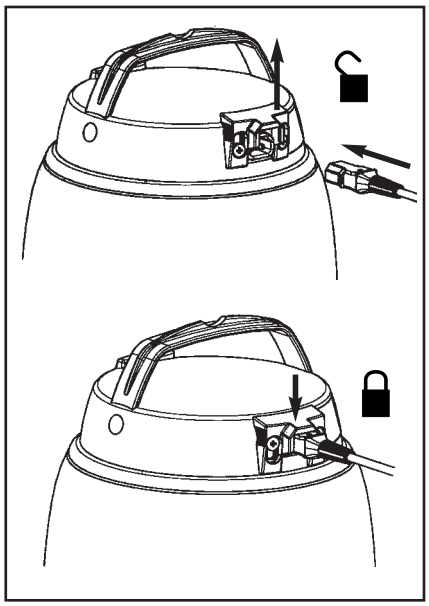
Removal of the motor top housing (15) and/or the support ring (16)

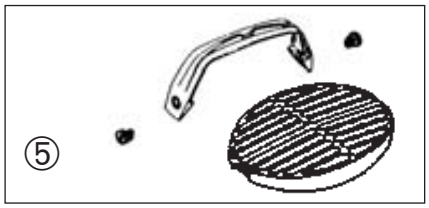
⑥ Unscrew the two screws with steel brackets where the handle locks to the motor head with a Torx screwdriver T20. Unscrew the electrical socket (17) and remove with two screws (18). To remove the on/off button (19) from the top housing (15), press down a slot screwdriver between the on/off button (19) and the top housing (15) and rock it gentle down wards to release it. Unscrew and remove the six screws (1) for the motor heads plastic ring.
Replace the top housing (15) and/or the support ring (16).
Refit in reverse order.

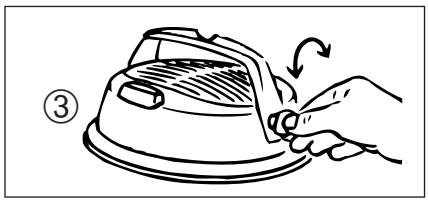
Removal and refitting of the motor unit internal wires

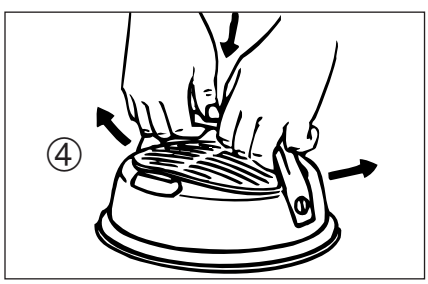
Release the two internal motor wires from the terminal block with a 3.5 x 0.6 mm slot screwdriver.

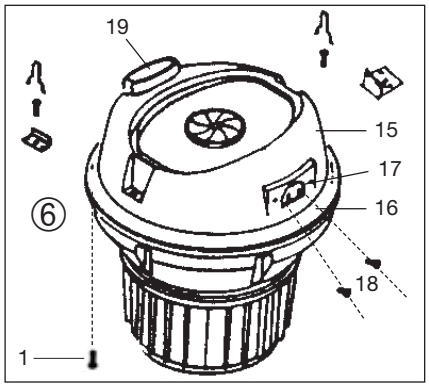
⑦ Remove the motor housing item **2** by unscrewing the four screws with a Torx screwdriver T 20 and before removing it, unscrew the screw, item **3** and guide the two internal motor wires back through the bush holes with the plate, item **4** and the gasket, item **5**. Sound absorber item **6** can now be replaced.











ASSEMBLY INSTRUCTIONS GM 80-90 AND GD 90C MOTOR HEAD

121250xx.	**Replacement of the motor/fan unit (12)**	**B-1.3.5**
22130500.	**Wire kit to replace thermo switch (11)**	**2**
22130501.	**Thermo switch kit only for UL-approved motor heads (11)**	
22231100.	**Replacement of the motor grommets (10) and frame (9)**	
22231200/01.	**Replacement of the bottom housing (14)**	
22232300.	**Replacement of the top housing (15)**	
22232500.	**Replacement of the support ring (16)**	
22365300.	**Replacement of the sound absorber**	
22399800.	**Replacement of the inlet gasket (13)**	

Replacement of the motor-fan unit

⑧ Lift out item **9** and **10** with the motor/fan unit, item **12**, and unplug the existing internal wire connector. On UL-approved motor heads if the switch fails, replace it with a new thermo switch by positioning it into item **11** or position it over the grill. All motor heads without UL-approval where the thermo switch fails, replace it if broken with the internal wire kit without the thermo switch.

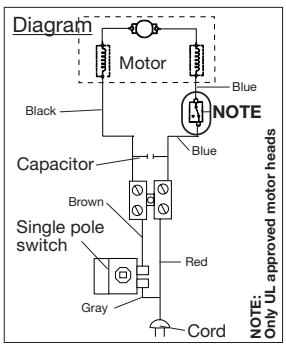
Replace the internal wire connector to the motor terminal pins. Place item **13** on the bottom of item **12** and make sure that the motor/fan edge fits properly to item **13**. Place item **12-13** with item **9-10** on top of the motor in the bottom housing, item **14**.Position the motor with the carbon brushes within the double lines marked in the bottom housing wall, the thermal switch positioned to the electrical outlet side. Place item **2** and make sure that item **9 - 10** fit four places into the inside grooves of item **2**, guide the two internal wires for the motor through the bush holes on top and mount the gasket, item **5** the plate, item **4** and screw item **3** in place.

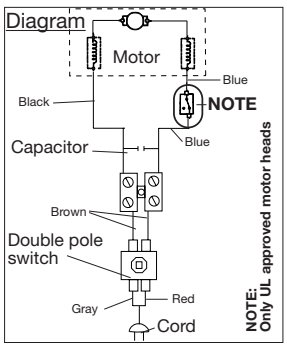
Refit in reverse order.

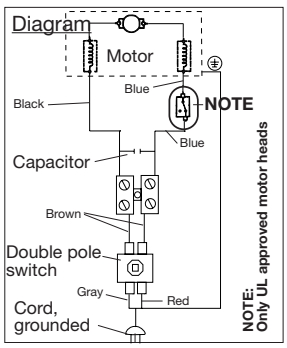
Torque wrench settings		**Tool type**
Electrical terminal	0.5 Nm	Slot screwdriver 3.5 x 0.6mm
Electrical outlet	1.3 Nm	Torx screwdriver T20
Bracket for handle	1.3 Nm	Torx screwdriver T20
Motor top housing	1.3 Nm	Torx screwdriver T20
Motor housing	1.3 Nm	Torx screwdriver T20
Internal wires gasket	1.3 Nm	Torx screwdriver T20

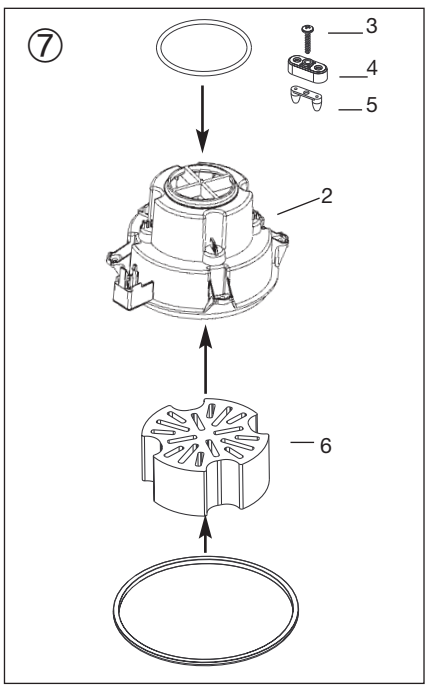
Test after repair

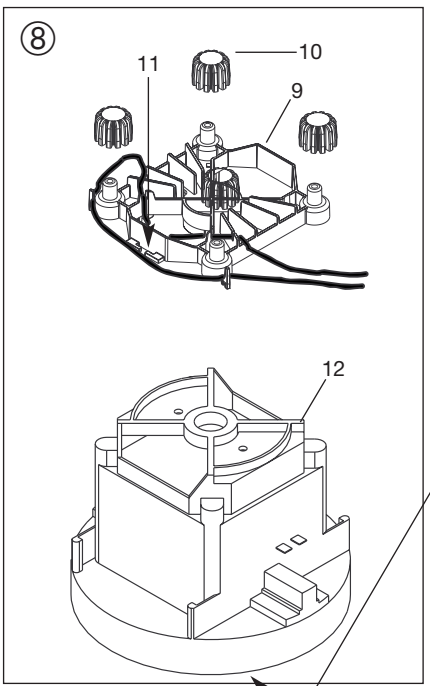
After repair, please check that the vacuum cleaner is functioning to Nilfisk specifications and to any local authorised precautions.

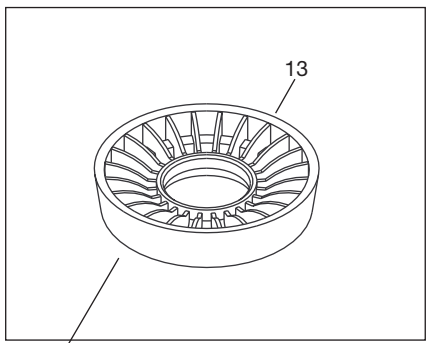


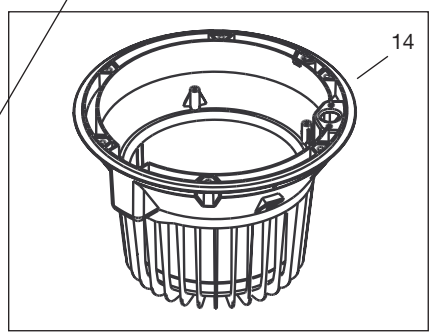












22131100/22131200 Replacement of the electrical on/off switch

To be performed by a skilled or instructed person only !

Disconnect the vacuum cleaner from the power supply before starting the work!

Removal and refitting of the motor head

① Model 80: Open the two top catches on the container and lift away the motor head. When replacing the motor head, position the on/off switch over the suction inlet before locking the catches.
② Model 90: Remove the motor head by turning its handle counter-clockwise. Lift out the motor. Refit by placing the motor in the container with the on/off switch in line with the printed on/off symbol on the container. Turn the motor head clock-wise until a distinct click is heard. If the motor head will not lock into position by turning, press the red locking lever inside the container in the direction of the arrow. Then mount as described.

Removal and refitting of the handle with grill, diffuser and sound-suppressor

③ Detach the handle by turning the slot of the two screws to vertical position.
④ Release the handle by a gentle downward pressure at its centre. Press and release the handle from the recess.
⑤ Lift off the grill, diffuser with sound-suppressor.
When replaced, mount the sound-suppresor on top of the motor head with diffuser and grill. Replace the handle and lock the two screws by turning their slot to horizontal position.

Removal of the motor top housing and ring

⑥ Unscrew the two screws with steel brackets where the handle locks to the motor head with a Torx screwdriver T20. Unscrew and remove the six screws, item **1,** for the motor heads plastic ring.

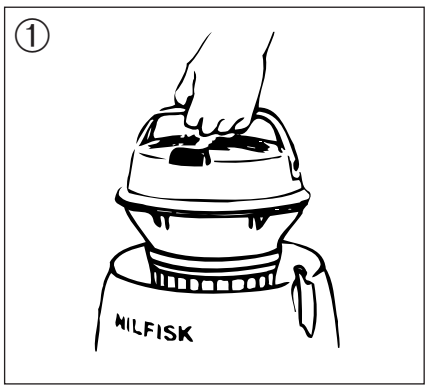
Removal of the on/off switch

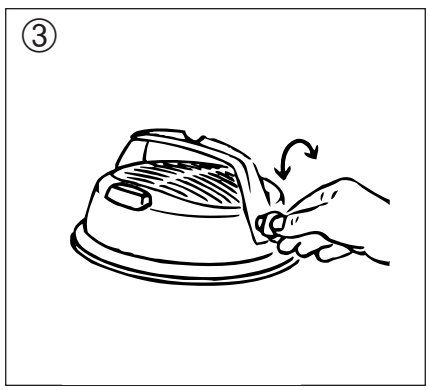
Release the two on/off switch internal motor wires from the terminal block with a 3.5 x 0.6 mm slot screwdriver and the two internal electrical outlet wires. Remove the on/off switch and replace with new.

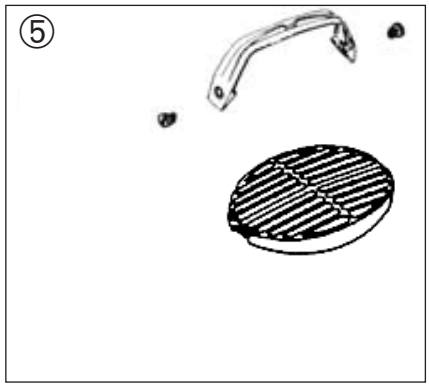
Refit in reverse order

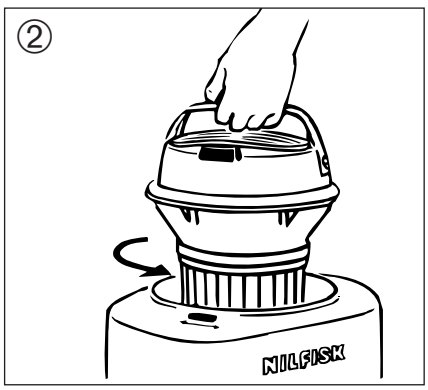
Test after repair

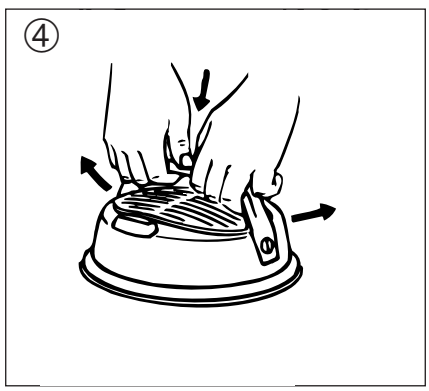
After repair, please check that the motor/fan unit is functioning to Nilfisk specifications and to any local authorised precautions.

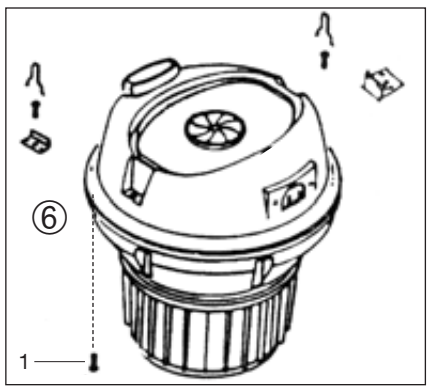








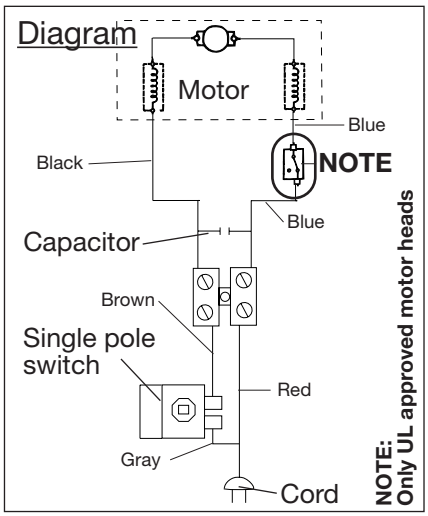


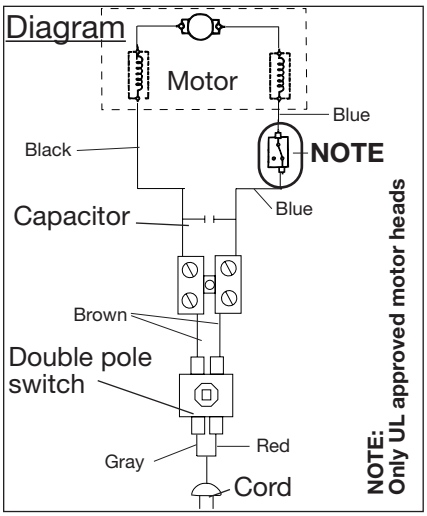


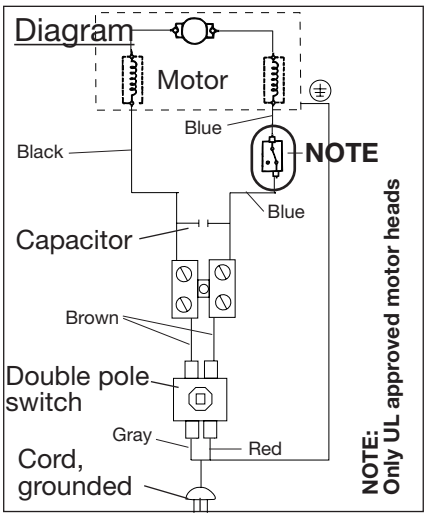
22131100/22131200 Replacement of the electrical on/off switch

Torque wrench settings		Screwdriver type
Electrical terminal	0.5 Nm	Slot screwdriver 3.5 x 0.6mm
Bracket for handle	1.3 Nm	Torx screwdriver T20
Motor top housing	1.3 Nm	Torx screwdriver T20

Diagram:







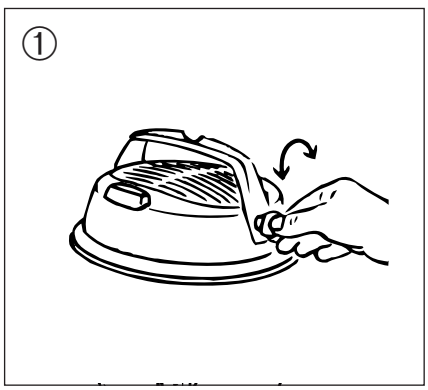
Replacement of 22132000 handle and 11693701/11641000 diffuser/micro static filter

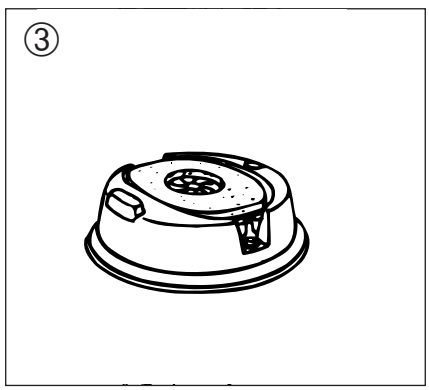
Removal and refitting of the handle with grill, diffuser and sound-suppressor

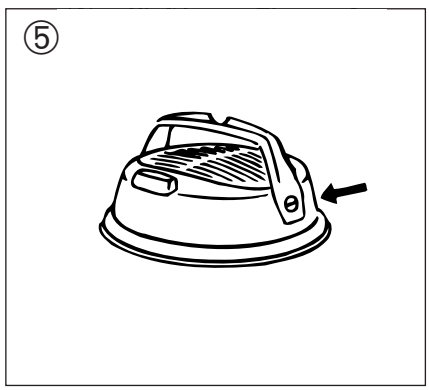
① Detach the handle by turning the slot of the two screws to vertical position.
② Release the handle by a gentle downward pressure at its centre. Press and release the handle from the recess.
③ Lift off the exhaust grill and the diffuser. The sound absorbent material must remain on top of the motor.
④ Remove the diffuser and mount the replacement. Replace the grill.

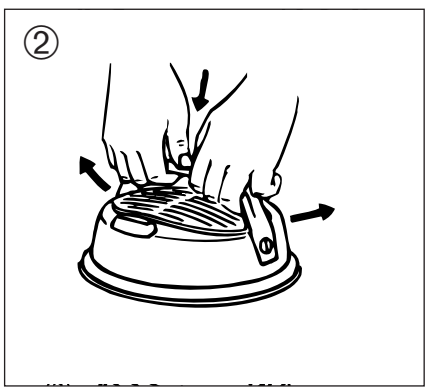
Replace the handle

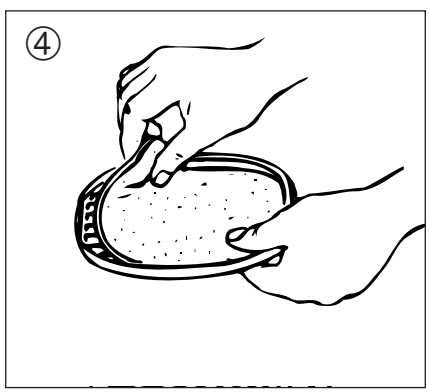
⑤ Install the handle into position and lock it by turning the screws until their slots are horizontal.







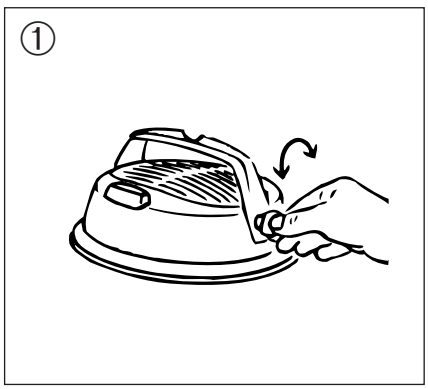


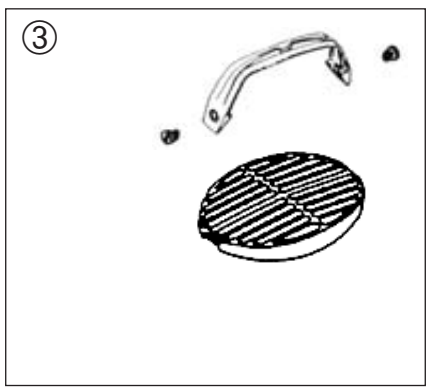


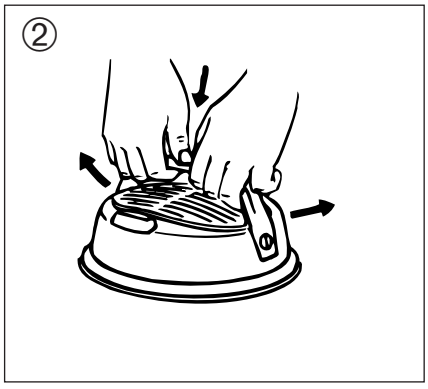
Replacement of 11562000 blow coupling

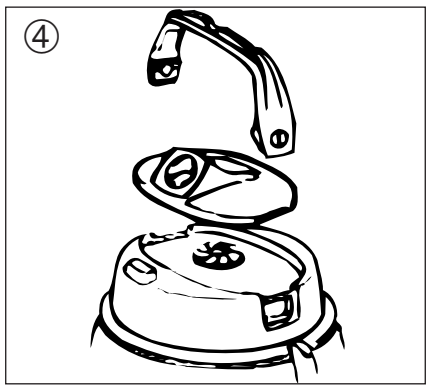
Mounting of the blow-coupling by removal of the grill and diffuser

① Detach the handle by turning the slot of the two screws to vertical position.
② Release the handle by a gentle downward pressure at its centre. Press and release the handle from the recess.
③ Lift away the grill, the diffuser and the sound suppressor material.
④ Mount the blow-coupling and replace the handle. Lock the two screws by turning their slot back to horizontal position.





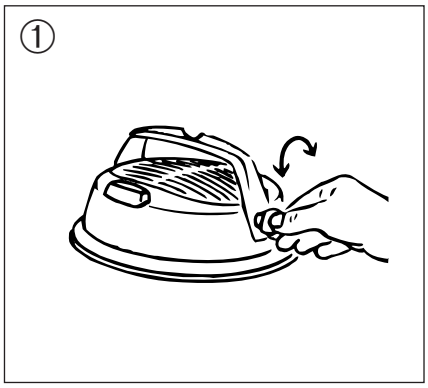


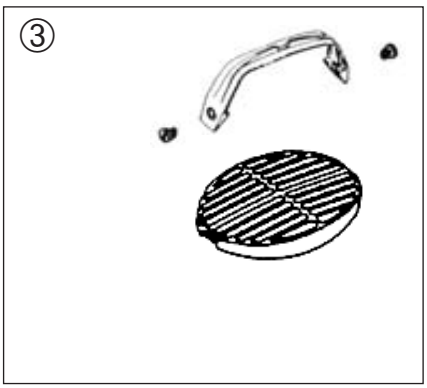


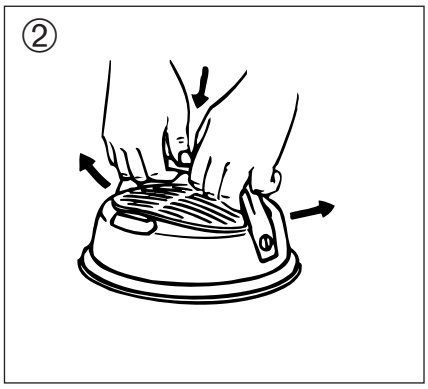
Mise en place du collecteur de soufferie 11562000

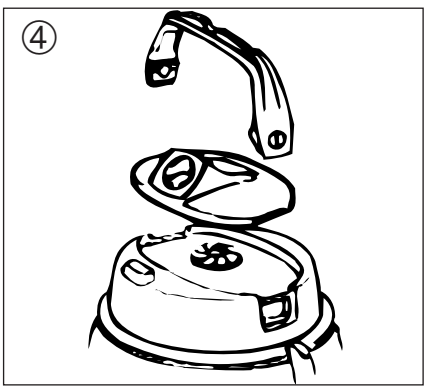
Mise en place du collecteur de soufflerie par remplacement de la grille et du diffuseur

① Retirer la poignée en tournant la fente des deux vis en position verticale.
② Libérer la poignée par une douce pression verticale en son centre.
Retirer la poignée de sa cavité.
③ Enlever la grille, le diffuseur et la mousse isolante.
④ Assembler le collecteur de soufflerie et remonter la poignée. Tourner les deux vis en position horizontale pour fermer.









Replacement of 12141x00 fixed cord

To be performed by a skilled or instructed person only !

Disconnect the vacuum cleaner from the power supply before starting the work!

Removal and refitting of the motor head

① Remove the motor head by turning its handle counter-clockwise. Lift out the motor. Refit by placing the motor in the container with the on/off switch in line with the printed on/off symbol on the container. Turn the motor head clock-wise until a distinct click is heard. If the motor head will not lock into position by turning, press the red locking lever inside the container in the direction of the arrow. Then mount as described.

Removal and refitting of the handle with grill, diffuser and sound-suppressor

② Detach the handle by turning the slot of the two screws to vertical position.

③ Release the handle by a gentle downward pressure at its centre. Press and release the handle from the recess.

④ Lift off the grill, diffuser with sound-suppressor.
When replaced, mount the sound-suppresor on top of the motor head with diffuser and grill. Replace the handle and lock the two screws by turning their slot to horizontal position.

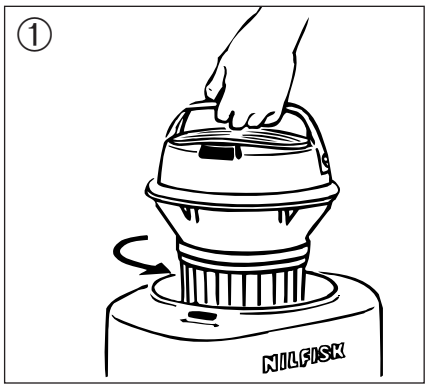
Removal and refitting of the motor top housing and cord

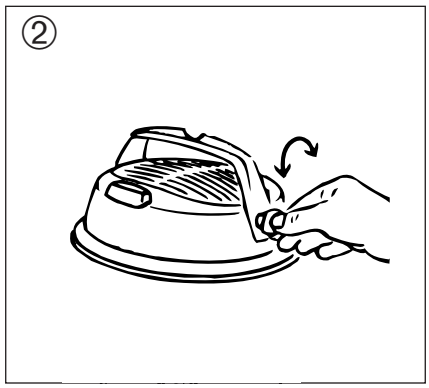
⑤ Unscrew the two screws with steel brackets where the handle locks to the motor head with a Torx screwdriver T20.

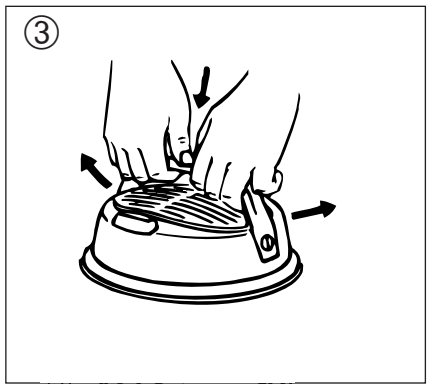
⑥ Remove the motor top part and pull off the two wire terminals.

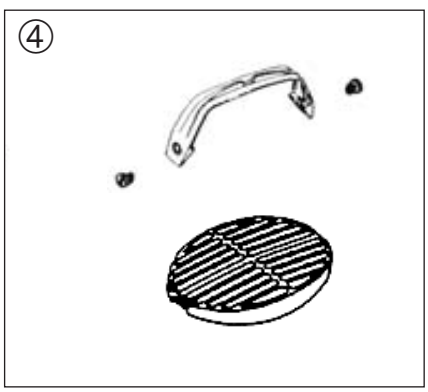
⑦ Unscrew the two torx headed screws with a torx head bit T25,25 mm, for the “cable stop plate”, pull off the two external sockets of “console” and remove cable with “trumpet”.

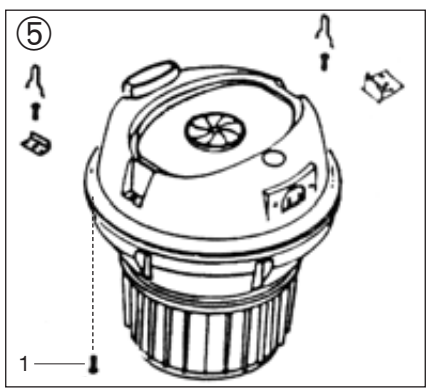
⑧ Press new cable through “trumpet and “console”, pull the cable sleeve until “cable stop plate” can be mounted. Make sure the cable release inside “trumpet” has a good grip to the cable sleeve, see sketch A.

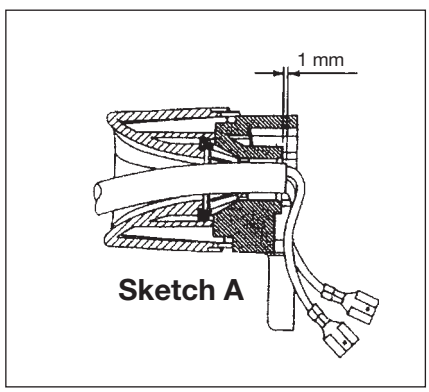












Replacement of 12141x00 cord

⑨ Press the terminal from the live wire on the “L” marked terminal spade to the left side and the terminal from the neutral wire on the”N” marked to the right side. Make sure the cable sleeve is positioned as shown on sketch A. Mount the “cable stop plate” with two torx headed screws through the “console” into the “trumpet”. Make sure there is no air gap on the outside between “trumpet” and motor top part and “trumpet” is fixed in its position.

Mount the two motor wire terminal sockets and make sure that the wire from the motor is mounted to “N” for neutral and the wire from the on/off switch to “L” for live.

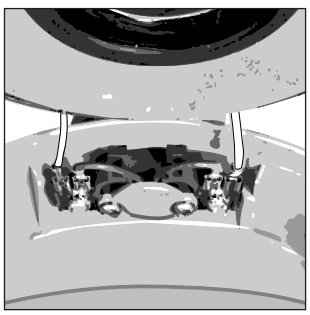
When assembling the motor top plate, ensure that the two motor wires are free to move and not obstructed by other components.
Refit in reverse order.

Refit in reverse order.

Test after repair

After repair, please check that the vacuum cleaner is functioning to Nilfisk specifications and to any local authorised precautions.

Torque wrench settings		Tool type
Electrical outlet	1.3 Nm	Torx screwdriver T20
Bracket for handle	1.3 Nm	Torx screwdriver T20
Cable stop plate	1.8 Nm	Torx screwdriver T25



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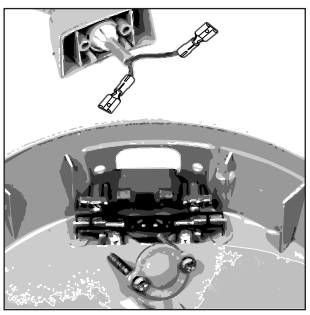

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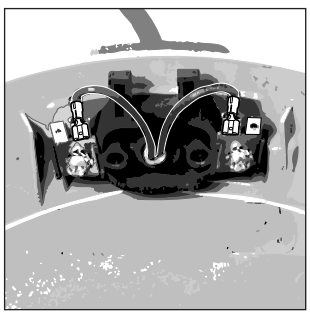

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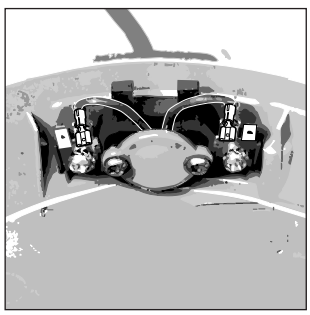

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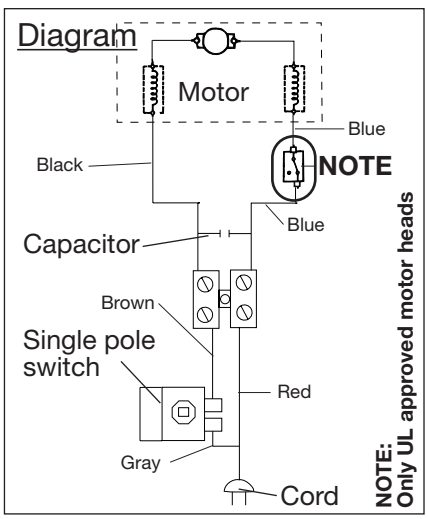
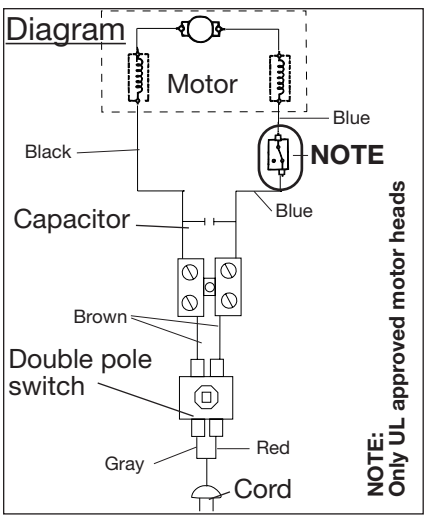
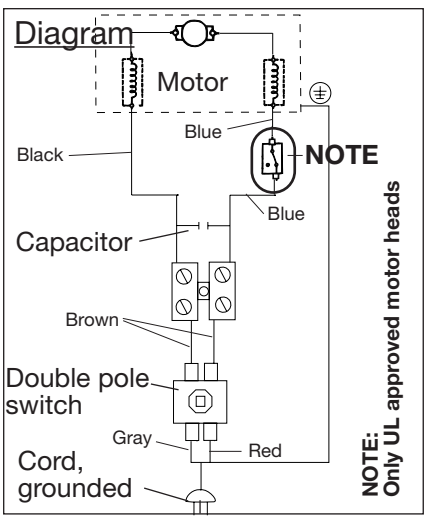






22136000. Replacement of the swivel wheel for the 80 Series consumer trolley and the 90 Series front wheel.

Removal and refitting of the swivel wheel on the 80 Series consumer trolley.

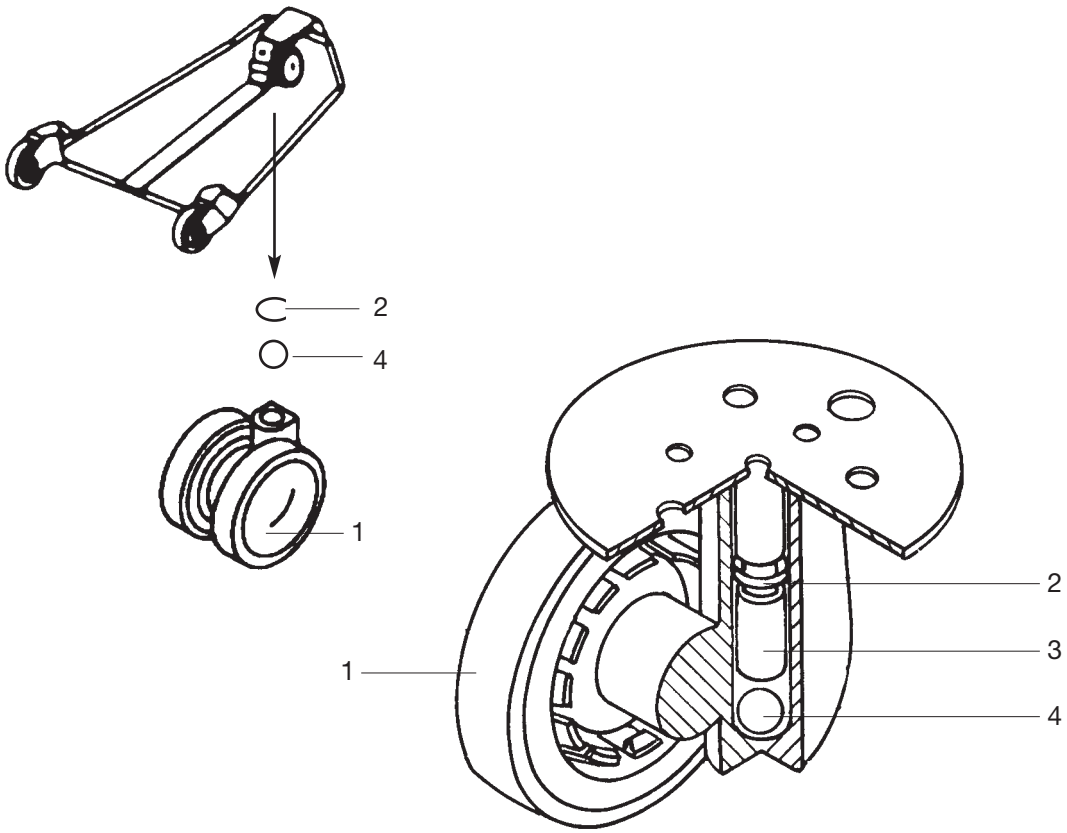
Pull off the worn out swivel wheel (1). Make sure the spring (2) is fixed to the axis (3), and lubricate the clean axis (3) with Mobil grease No. 77 or equal.
Pull the new swivel wheel (1) off its axis (3), place the new ball (4) and push the new swivel wheel (1) back on the wheel axis of the trolley

Removal and refitting of the swivel wheel on the 90 Series container.

Unscrew the worn out swivel wheel (1) and replace with the new wheel kit.

Only 90 Series

Torque wrench settings		Tool type
Wheel screw	2.5 Nm	Slot screwdriver 3.5 X 0.6 mm



21738000. 21739000. Replacement of Exhaust filters

Disconnect the vacuum cleaner from the power supply before starting the work!

NOTE: Observe correct operator protection in accordance to regulations against material kept in the HEPA/ULPA filter.

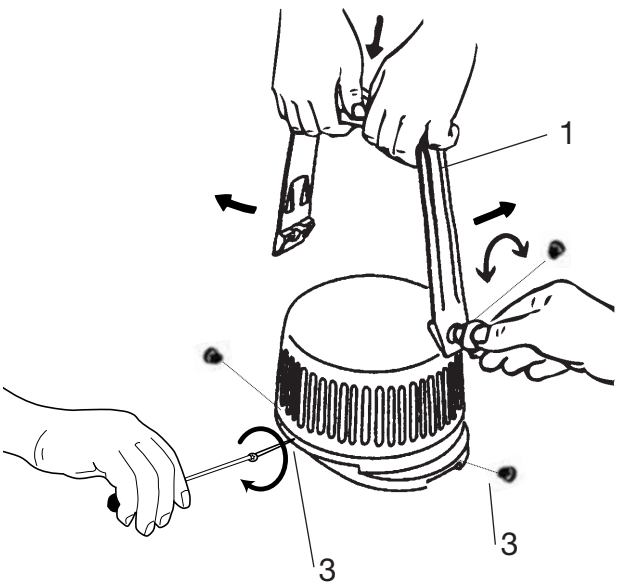
Removal of the handle(1)
Detach the handle by turning the slot of the two screws to vertical position.
Release the handle by a gentle downward pressure at its centre.
Press and release the handle from the recesses.

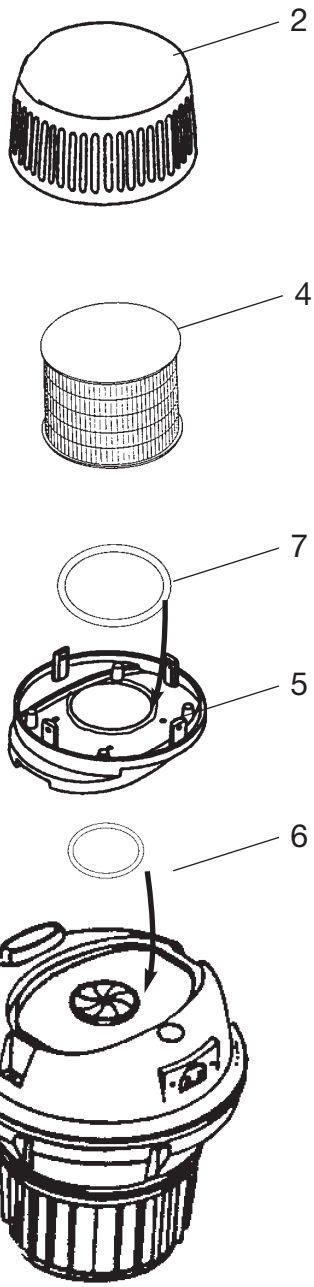
Removal and replace of the filter cartridge(4) and the soft gaskets(6-7)
Unscrew the four screws(3) with a Pozidrive screwdriver no.2.
Lift-away the housing(2) with filter cartridge(4). Lift-away the plastic housing(5) to replace the small gasket(6) with a new soft version.
Replace the plastic housing(5) on top of the motor head.
Remove the larger gasket(7) in the groove of the plastic housing(5) and replace with a new soft version.

Mount the filter cartridge(4) and filter housing(2) on top of the plastic housing(5).
Press by hand the filter housing(2) to mount the four screws.

Remount the handle and lock it in position by turning the two slotted screws back to horizontal position.

Note:
As the gaskets are aged during time, please replace both gaskets to secure 100% tightness around the new filter cartridge.





MONTERINGSINSTRUKTIONER
MONTAGEANWEISUNG
INSTRUCCIONES DE MONTAJE
INSTRUCTIONS DE MONTAGE

21738000. 21739000. Replacement of Exhaust filters

MONTERINGSINSTRUKTIONER GS/GM 80-90 SERIEN

21738000. 21739000. Udskiftning af udblæsningsfiltre B-1.3.5-13

Tag støvsugerens stik ud af stikkontakten, før udskiftningen påbegyndes!

BEMÆRK: Sørg for korrekt operatørbeskyttelse i overensstemmelse med forskrifterne i forbindelse med materiale i HEPA/ULPA-filteret.

Aftagning af håndtaget (1)
Tag håndtaget af ved at dreje kærven i de to skruer til lodret stilling.
Udløs håndtaget ved at trykke forsigtigt ned på midten af det.
Tryk og udløs håndtaget fra fordybningerne.

Udtagning og udskiftning af filterindsatsen (4) og den bløde pakning (6-7)
Skru de fire skruer (3) af med en Pozidrive-skruetrækker nr. 2.
Løft huset (2) med filterindsatsen (4) af. Løft plasthuset (5) af for at udskifte de små pakninger (6) med nye, bløde pakninger.
Sæt plasthuset (5) på toppen af motordelen igen.
Fjern den store pakning (7) i rillen i plasthuset (5), og udskift den med en ny, blød pakning.

Montér filterindsatsen (4) og filterhuset (2) oven på plasthuset (5).
Tryk på filterhuset (2) med hånden for at montere de fire skruer.

Sæt håndtaget på igen, og lås det på plads ved at dreje kærven i de to skruer tilbage til vandret stilling.

Bemærk:
Da pakninger ældes, udskiftes begge pakninger for at sikre 100% tæthed rundt om den nye filterindsats.

MONTAGEANWEISUNG SERIE GS/GM 80-90

21738000. 21739000. Wechseln des Abluftfilters B-1.3.5-13

Vor dem Auswechseln des Filters bitte den Netzstecker des Staubsaugers aus der Steckdose ziehen!

HINWEIS: Bitte halten Sie alle Vorschriften zum Schutz gegen die in Schwebstoffiltern enthaltenen Stäube ein!

Abnehmen des Handgriffs (1)
Zum Abnehmen des Handgriffs drehen Sie die beiden Befestigungsschrauben so, dass ihre Schlitze senkrecht stehen.
Drücken Sie die Mitte des Handgriffs dann leicht nach unten, so dass der Handgriff freikommt. Dabei rastet er aus den Vertiefungen aus und kann abgenommen werden.

Austauschen des Filtereinsatzes (4) und der flexiblen Dichtungen (6-7)
Entfernen Sie die vier Schrauben (3) mit einem Pozidrive-Schraubenzieher Größe 2. Nehmen Sie das Gehäuse (2) mit dem Filtereinsatz (4) ab.
Nehmen Sie das Kunststoffgehäuse (5) aus dem Motorkopf, und tauschen Sie den kleinen Dichtungsring (6) gegen eine neue flexible Dichtung aus.
Setzen Sie das Kunststoffgehäuse (5) wieder in den Motorkopf ein.
Entnehmen Sie den größeren Dichtungsring (7) aus der Rille im Kunststoffgehäuse (5), und tauschen Sie ihn gegen einen neuen flexiblen Ring aus.

Befestigen Sie den neuen Filtereinsatz (4) und das Filtergehäuse (2) auf dem Kunststoffgehäuse (5).
Drücken Sie mit der Hand auf das Filtergehäuse (2), und bringen Sie die vier Schrauben wieder an.

Befestigen Sie den Griff, und sichern Sie ihn, indem Sie die beiden Schlitzschrauben wieder in die waagrechte Stellung bringen.

Hinweis:
Die Dichtungsringe verhärten sich im Laufe der Zeit. Um eine hundertprozentige Abdichtwirkung um den neuen Filtereinsatz herum sicherzustellen, müssen deshalb auch die beiden Dichtungen erneuert werden.

INSTRUCCIONES DE MONTAJE PARA LA SERIE GS/GM 80-90

21738000. 21739000. Sustitución de los filtros de extracción B-1.3.5-13

¡Desconecte el aspirador de la corriente eléctrica, antes de hacerlo funcionar!

NOTA: Deberá observarse una adecuada protección del operario, de acuerdo con las normas establecidas contra el almacenamiento de materiales en el filtro HEPA/ULPA.

Retirada del asa (1)
Separe el asa colocando la ranura de los dos tornillos en posición vertical. Suelte el asa presionando igeramente hacia abajo, desde su parte central. Presione y libere el asa de sus respectivas cavidades.

Retirada y sustitución del cartucho del filtro (4) y de las juntas blandas (6-7)
Suelte los cuatro tornillos (3) con un destornillador Pozidrive del número 2. Quite la carcasa (2) junto con el cartucho del filtro (4). Retire la carcasa de plástico (5) y sustituya la junta pequeña (6) por otra nueva y lexible. Vuelva a colocar la carcasa de plástico (5) sobre la parte superior del cabezal del motor. Extraiga la junta mayor (7) de la ranura de la carcasa de plástico (5) y sustitúyala por otra nueva y flexible. Monte el cartucho del filtro (4) y su carcasa (2) sobre la parte superior de la carcasa de plástico (5). Presione manualmente la carcasa de plástico (2) para colocar los cuatro tornillos.

Vuelva a colocar el asa y asegúrela en su posición, volviendo a girar los dos tornillos de ranura a su posición horizontal.

Nota:
Como las juntas se irán gastando con el tiempo, deberá sustituirlas para garantizar al 100%, la correcta
sujeción del nuevo cartucho del filtro.

INSTRUCTIONS DE MONTAGE GS/GM 80-90 SERIES

21738000. 21739000. Remplacement des filtres d'évacuation B-1.3.5-13

Déconnectez l'aspirateur de la prise d'alimentation avant d'entamer le montage !

REMARQUE : Respectez les consignes de sécurité relatives au matériel composant les filtres HEPA/ULPA.

Enlèvement de la poignée (1)
Détachez la poignée en tournant les deux vis jusqu'à ce que les fentes soient en position verticale.
Relâchez la poignée en exerçant, en son point central, une légère pression vers le bas.
Appuyez et relâchez pour extraire la poignée de son logement.

Enlèvement et remplacement de la cartouche filtrante (4) et des joints d'étanchéité souples (6-7).
Desserrez les 4 vis (3) à l'aide d'un tournevis Pozidrive N°2. Soulevez et ôtez le compartiment (2) avec la cartouche filtrante (4). Soulevez et ôtez le boîtier en plastique (5) pour remplacer le petit joint (6) par un nouveau joint souple.
Repositionnez le boîtier en plastique (5) au-dessus de la culasse du moteur.
Enlevez le plus grand joint d'étanchéité (7) situé dans la rainure du boîtier en plastique (5) et remplacez-le par un nouveau joint souple.

Remontez la cartouche filtrante (4) et le compartiment du filtre (2) au-dessus du boîtier en plastique.
Enfoncez le compartiment du filtre (2) pour serrer les 4 vis.

Remontez la poignée et verrouillez-la, en position, en tournant les deux vis de sorte que les fentes soient en position horizontale.

Remarque :
Etant donné que les joints d'étanchéité s'usent avec le temps, veillez à les remplacer tous les deux de manière à garantir une étanchéité complète autour de la nouvelle cartouche filtrante.

22361000. Mounting the bracket(a) with screws(b) to the Motor Head B-1.3.5

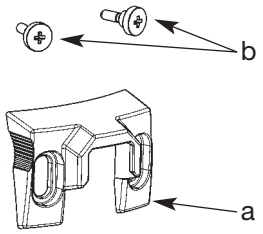
Unplug the cord from the wall socket before starting the work!

Mounting of the bracket(a) with two screws(b) to the Motor Head
1-Unscrew and remove the two existing screws(c) from the Motor Head socket.
2-Mount the new bracket(a) with the two new screws(b) to the Motor Head.
3-Shows the bracket(a) mounted.

How to plug the new socket into the Motor Head plug
4-Slide the bracket(a) vertical upwards to open it.
5-Push the plug(d) into the Motor Head socket.
6-Push the bracket(a) gently downwards.

Note:
Use a screwdriver type Torx T20 to the screws. Avoid tightening the screws(b) too much (max. 1.1 Nm), as this will damage the thread of the Motor Head socket.

Contents:



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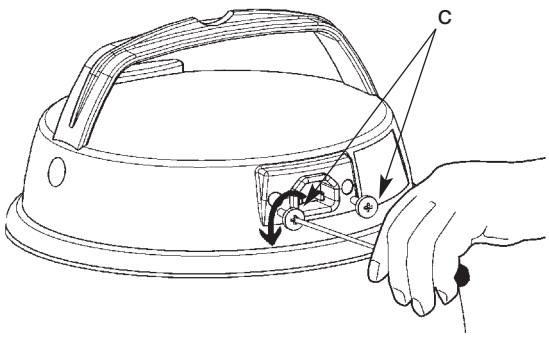

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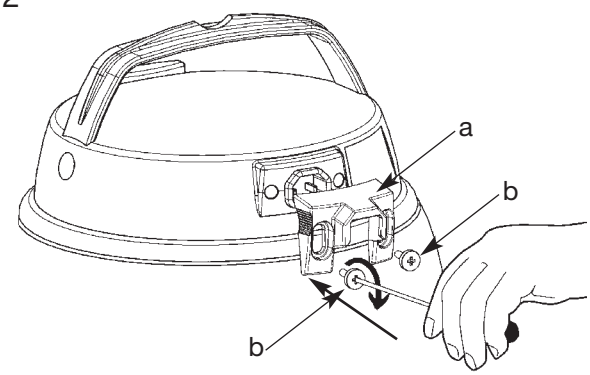

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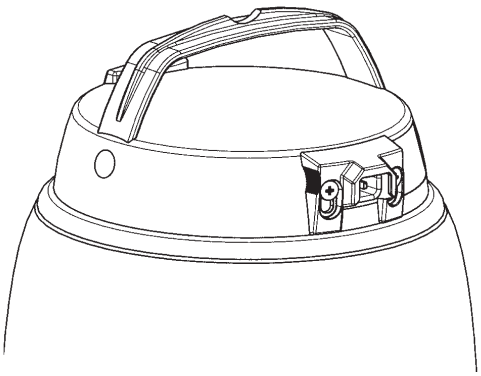

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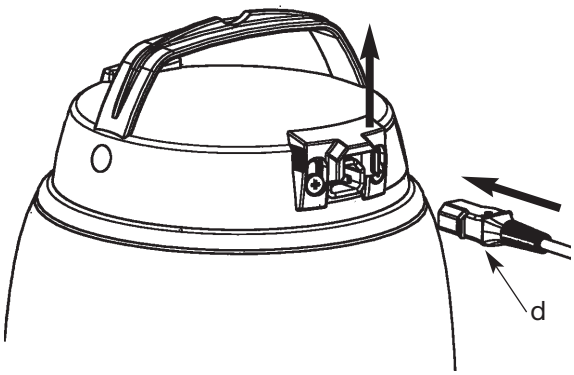

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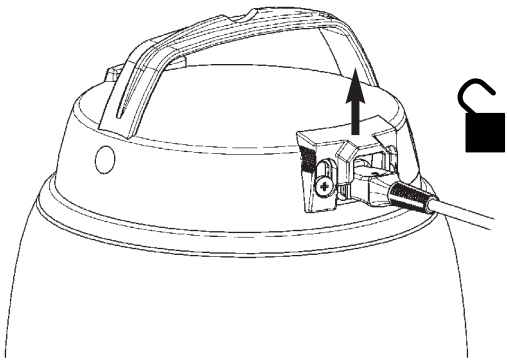

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